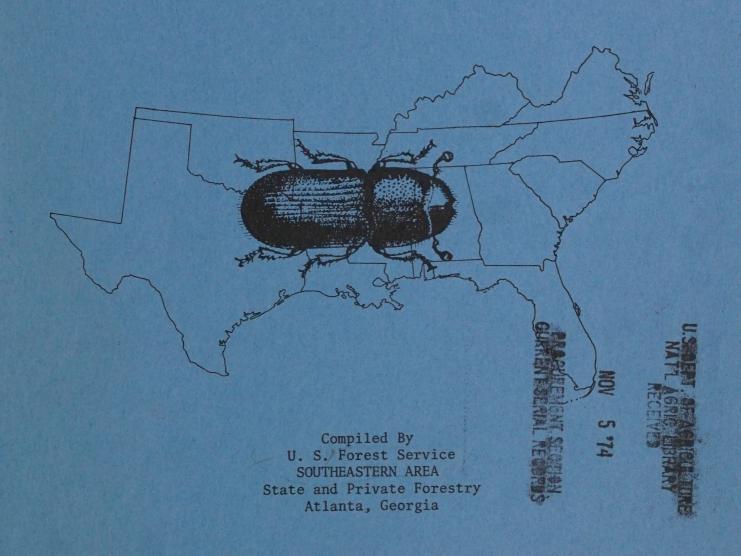
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SB608 . P6556

# SOUTHEASTERN AREA SOUTHERN PINE BEETLE OUTBREAK STATUS July 1974



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#### FY 1974 OUTBREAK STATISTICS

Ownership	Infested Salva MBF	d Volume aged MCF	Funds <u>Expended</u> \$	Acreage 1/ Treated 1/ acres
State & Private	126,990	48,175	\$ 2,033,182 2/	74,765 <sup>3</sup> /
Federal	35,626	3,108	\$ 445,463	8,425
SA Total	162,616	51,283	\$ 2,478,645	83,190

<sup>1/</sup> Estimated combined total acreage of salvaged infested, piled and burned, and chemically treated trees.

#### OUTLOOK FOR FY 1975

Ownership	Total Acreage of Susceptible Host Type in SA 4	Net Acreage of Host Type in Outbreak	Federal Funds Requested for Control Projects	Infest	icipated ed Volume Salvaged
	Acres	Acres	\$	MBF	MCF
State & Private	77,340,400	47,305,358	\$ 1,324,690	70,762	57,570
Federal	7,842,800	2,512,934	604,520	38,561	75
SA Total	85,183,200	49,818,292	1,929,210	109,323	57,645

<sup>4/</sup> Includes susceptible host type acreage in Kentucky, Florida, and Oklahoma not currently within the outbreak area.

<sup>2/</sup> Total of \$1,100,966 Federal and \$932,216 State and private funds.

<sup>3/</sup> Salvage treatment acreage calculated from salvage volumes at 800 cubic feet per acre; acreages for pile and burn and chemical treatment are not included for State and private lands.

### States with Cooperative Suppression Projects - 9

Alabama Louisiana South Carolina

Arkansas Mississippi Texas

Georgia North Carolina Virginia

### Federal Administrative Units with Suppression Projects

National Forests in North Carolina

Chattahoochee-Oconee National Forests, Georgia

Jefferson National Forest, Virginia

National Forests in Texas

Francis Marion and Sumter National Forests, South Carolina

Kisatchie National Forest, Louisiana

National Forests in Alabama

National Forests in Mississippi

Cherokee National Forest, Tennessee

Oak Ridge National Lab, Atomic Energy Commission, Tennessee George Washington National Forest, Virginia

## SUMMARY

Approximately 58 percent of the 85.2 million acres of susceptible pine forests in the 13 Southeastern States are currently included in the outbreak.

The intensity of the outbreak, expressed in numbers of counties involved, increased slightly in Texas and Arkansas (gain of 6 counties); decreased in Louisiana, Mississippi, and Alabama (reduction by 17 counties); and increased dramatically in Georgia, South Carolina, North Carolina, and Virginia (gain of 43 counties) for a net increase of 32 counties. A total of 347 counties are included within the outbreak boundary.

U.S. Forest Service entomologists forecast a continuing intensification of the outbreak in the Georgia to Virginia area and a reduction in the Alabama to Texas region over the next 6 months.

# APPENDIX

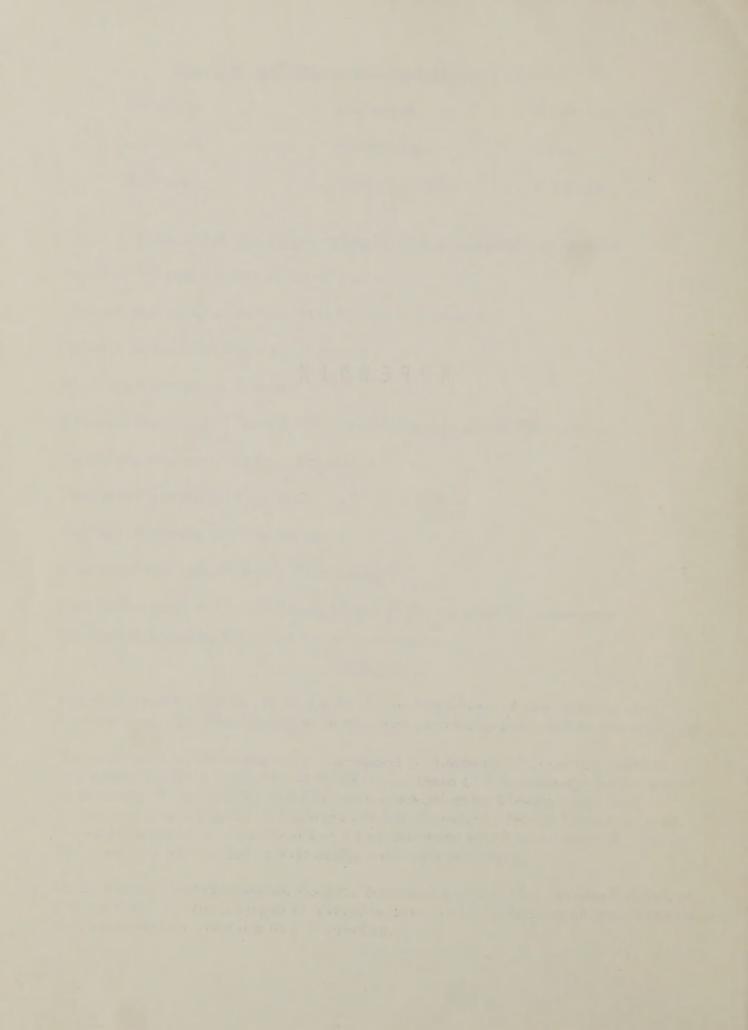


TABLE 1.

State	Ownership	Loblolly	Shortleaf	Fore Shortleaf Loblolly	Forest Types leaf Solly Pitch	Southern Pine 2	Oak Pine	Pond	Virginia	Table Mtn.	Longleaf Slash	Total
Alabama	Private Public Total	111	111	7,132.3 305.5 7,437.8	111		4,614.5 220.4 4,834.9	111	111	111	1,854.4 144.3	13,601.2 670.2 14,271.4
Arkansas	Private Public Total	111	111	2,982.5 685.5 3,668.0	111	111	2,466.6 573.0 3,039.6	111	111	111	111	5,449.1 1,258.5 6,707.6
Florida	Private Public Total	339.9 4.5 344.4	34.5	111	111	111	1,365.0 303.3	261.8 81.8 343.6		111	111	2,001.2 389.6 2,390.8
Georgia	Private Public Total	4,818.4 256.3 5,074.7	1,637.9 97.4 1,735.3		111	111	3,350.7	285.0 19.5 304.5	265.0 35.4 300.4		111	10,357.0 697.8 11,054.8
Kentucky	Private Public Total	111	111		111	326.2 41.5 367.7	443.5 113.9 557.4	111	111	111	111	769.7 155.4 925.1
Louisiana	Private Public Total	111	111	4,161.4 277.9 4,439.3	111	111	2,034.4 135.0 2,169.4	111	.1 1 1	111	1,068.6 151.5 1,220.1	7,264,4 564,4 7,828.8
Mississippi	Private Public Total	111	111	3,718.8 523.8 4,242.6	111	111	2,969.8 402.2 3,372.0	111		111	1,051.6 283.8 1,335.4	7,740.2 1,209.8 8,950.0
North Carolina	Private Public Total	3,309.6 111.7 3,121.3	1,037.1 42.6	111	32.9 13.0 45.9	111	3,326.4 230.2 3,556.6	1,181.0 227.6 1,408.6	780.2 8.9 789.1	4.2 14.7 18.9	111	9,371.4 648.7 10,020.1
Oklahoma	Private Public Total	111	111	675.6 119.7 795.3	111	111	568.2 96.1 664.3	111		111	111	1,243.8 215.8 1,459.6
South Carolina	Private Public Total	2,588.9 327.6 2,916.5	772.9 101.2 874.1	111	4.6	111	1,970.8 154.0 2,124.8	344.7 40.7 385.4	151.7 10.9 162.6		1 1, 1	5,833.6 634.4 6,468.0
Tennessee	Private Public Total	111	111	847.8 151.0 998.8	111	111	598.7 199.3 1,198.0	111	1   1		1   1	1,846.5 350.3 2,196.8
Texas	Private Public Total	111	111	4,315.0 593.7	111	111	2,241.9 64.2 2,306.1	111		111	358.5	6,904.8 668.5 7,573.3
Virginia	Private Public Total	1,077.6 38.3	323.8 15.2 339.0		32.4 31.2 63.6	111	2,326.8 210.5 2,537.3	2.6	1,174.4 71.3 1,245.7	19.9 12.9 32.8		4,957.5 379.4 5,336.9
Total	Private	11,834.4	3,806.2	23,833.4	6.69	326.2	28,677.3	2,075.1	2,371.3	24.1	4,322.5	77,340.4
	Public	738.4	256.4	2,657.1	44.2	41.5	2,991.3	369.6	126.5	27.6	590.2	7,842.8
	Ownership	12,572.8	4,062.6	26,490.5		367.7	31,668.6	2,444.7	2,497.8	51.7	4,912.7	85,183.2
1/ Data extract	ed from U.S	. Forest Sei	Data extracted from U.S. Forest Service Resource Bulletins	ce Bulletins		by the Sout	published by the Southern & Southeastern Forest	heastern Fo	rest Experi	nent	Stations	

Data extracted from U.S. Forest Service Resource Bulletins published by the Southern & Southeastern Forest Experiment Stations. 2/ Forests in which 50% or more of the stocking is in shortleaf or other southern yellow pines singly or in combination.

			FY 1972	2			FY 1973				FY 1974		
· ·		Gross	Federal	Infested		Gross	Federal	Infested		Gross	Federal	Infested	
Q.	Ownershin	Outbreak	Funds	Volum	0	Outbreak	Funds	Volume		Outbreak	Funds	Volume	
0.00	Cwilet simp		\$	MBF	MCF	1/	\$ Typelided	MBF	ACF	1/	\$ Paperder	MBF	MCF
Alabama	Private Federal Total	203,000	13,293 13,293	804	111	15,000,000 500,000 15,500,000	500,000 180,064 680,064	66,722 6,194 72,916	20,377	15,000,000 1,270,240 16,270,240	475,000 74,658 549,658	28,843 1,815 30,658	12,670 185 12,855
Arkansas	Private	-	1	-		645,000	22,952	879	188	1,336,000	21,285	341	160
	Federal	1	1	1 1	1	245		100	1 0	1 226 000	100	244	
	lotai					042,000	756,77	2/2	188	1,330,000	027,17	341	TOOT
Georgia	Private Federal Total	2,000,000	988 10,960 11,948	290 4,767 5,057		9,200,000	38,000 51,396 89,396	3,920 6,431 10,351	2,717 628 3,345	9,018,130 1,336,132 10,354,262	96,000 50,124 146,124	31,282 3,937 35,219	13,099 315 13,414
Louisiana	Private	4,000,000		16,000	450	7,500,000	285,000	17,826	2,668	6,800,000	100,000	1,292	158
	Total	4,561,000		22,550	450	8,100,000	344,894	20,568	3,079	7,817,287	132,000	2,112	191
Mississippi	Private Federal	188,615	17,168	3,000		1,600,000	44,960 50,034	2,513	518	1,652,600	56,210	830	451
	Total	188,615	17,168	3,000		1,800,000	94,994	2,753	528	2,026,097	92,828	4,181	451
North Carolina	Private Federal	4,327,717 631,220 4 958 937	9,579	21,025 900 21 925		600,000	62,841	20,143	2,351	13,500,000 2,752,430	110,471 33,000	41,833 2,459	6,431
	10001	19,000		200612	112	2 600,000		207622		2 000 000	7116011	101911	10 70 70 70 70 70 70 70 70 70 70 70 70 70
South	Frivate Federal Total	481,479 995,479	22,070	2,767	113	3, 600, 000 1,300,000 4,900,000	55,183 55,183	2,902 3,446	814 814 1,372	5,249,444 5,249,444	47,500 35,250 82,750	3,120 8,221	10,723 377 11,102
Tennessee	Private Federal Total	50,000 50,000	15,700	579 579 579	1 1 1	80,000	22,350	341	69	1,714,984 338,136 2,053,120	27,068	676 620 1,296	9 121 130
Texas	Private Federal Total	6,200,000 80,000 6,280,000	45,000 4,800 49,800	2,000 2,300		8,000,000	165,000 56,924 221,924	28,000 4,847 32,847	811 185 996	8,000,000 1,716,967 9,716,967	185,000 140,835 325,835	4,941 17,004 21,945	381 643 1,024
Virginia	Private Federal Total	111				4,600,000 71,485 4,671,485	9,460	6,000 180 6,180	2,700 497 3,197	6,889,600 3,689 6,963,289	9,500 15,910 25,410	11,326 2,500 13,826	4,090 729 4,819
SA TOTALS	Private Federal Total	17,041,717 2,492,004 19,533,721	\$ 81,567 \$165,731 \$247,298	39,315 19,667 58,982	563	56,845,000 \$1 4,751,485 \$ 61,596,485 \$1	\$1,118,753 1 \$ 526,753 \$1,645,506 1	144,274 28,162 172,436	32,848 3,226 36,074	67,686,314 10,352,822 78,039,136	\$1,100,966 \$ 445,463 \$1,546,429	126,990 35,626 162,616	48,175 3,108 51,283
1/ 7-4-1		Single Street	Joseph on	CO COUR	Table	1							

1/ Total acreage of all counties within outbreak area. See Table 4.

State	Ownership	Federal Funds Requested	Anticipated Volume to be	Anticipated Infested Volume to be Salvaged MGF	Total Acreage of Host Type	Net Acreage of Host Type in Current Outbreak	Current Status and Course of Outbreak
Alabama	Private Federal Total	\$ 500,000 79,247 579,247	14,762 2,925 17,687		13,601,200 670,200 14,271,400	9,888,400 636,712 10,525,112	Populations have shifted to the East Central and Northeast. The normal summer increase in number of spots is occurring but is not expected to reach 1973 levels.
Arkansas	Private Federal Total	25,190 1/25,190		385	5,449,100 1,258,500 6,707,600	938,900	Infestations are intensifying within the outbreak area and are gradually moving to the Northeast.  No major buildup is expected.
Georgia	Private Federal Total	215,000 52,000 267,000	5,950	36,450	10,357,000 697,800 11,054,800	6,398,820 176,257 6,575,077	Populations are at relatively high levels. Infestations are 32% higher than in 1973. Damage has increased rapidly in the Savannah area since February 1974, when first detected.
Louisiana	Private Federal Total	75,000 <u>1</u> / 48,400 123,400	1,000	505	7,264,400 564,400 7,828,800	4,800,300 322,400 5,122,700	Statewide, populations are low. Allen and Calcasieu Parishes are experiencing large infestations but beetles are not expected to reach outbreak proportions this summer.
Mississippi	Private Federal Total	65,000 <u>1/</u> 61,824 126,824	200 4,500 4,700	180	7,740,200 1,209,800 8,950,000	2,056,400 250,242 2,306,642	Infestation levels appear to be declining slightly and no major buildup is expected.
North Carolina	Private Federal Total	190,000 <u>1</u> / 38,500 228,500	50,000 1,830 51,830	7,800	9,371,400 648,700 10,020,100	8,171,964 116,714 8,288,678	Conditions are the worst in 15 years. An estimated 13,500 spots Statewide reflect a 100% increase in activity since the winter/spring surveys. Many new counties are now involved.
South Carolina	Private Federal Total	40,000 31,500 71,500	5,000	4,062	5,833,600 634,400 6,468,000	5,765,458 292,554 6,058,012	The outbreak has moved from the upper Piedmont, where it is lessening in intensity, to the lower Piedmont, Central, and lower Coastal Plain Regions where it appears to be on the upswing.
Tennessee	Private Federal Total	10,200	300 400 700	7	1,846,500 350,300 2,196,800	741,646 135,244 876,890	Scattered spots present in all infested counties. Infestations in the mountainous areas of Cocke County are expanding at a rapid rate.
Texas	Private Federal Total	200,000 247,849 447,849	14,956	5,181	6,904,800 668,500 7,573,300	5,788,463 556,537 6,345,000	Most of the State has shown an increase in the number of spots compared to 1973. A decline in number of spots is expected during the remainder of 1974.
Virginia	Private Federal Total	14,500 35,000 49,500	5,500 2,000 7,500	3,000 75 3,075	4,957,500 379,400 5,336,900	2,755,007 26,274 2,781,281	At high static levels in the central Piedmont, new highs in portions of Isle of Wight, Nansemond and Sussex Counties, and on upswing in other southern Coastal Plain Counties.
SA TOTALS	Private Federal Total	1,324,690 604,520 1,929,210	70,762 38,561 109,323	57,570 75 57,645	73,325,700 7,082,000 80,407,700	47,305,358 2,512,934 49,818,292	

 $\underline{1}/$  Anticipated request; proposal not received by August 9, 1974.

Table 4. Southern Pine Beetle Outbreak Intensity, July 1974.

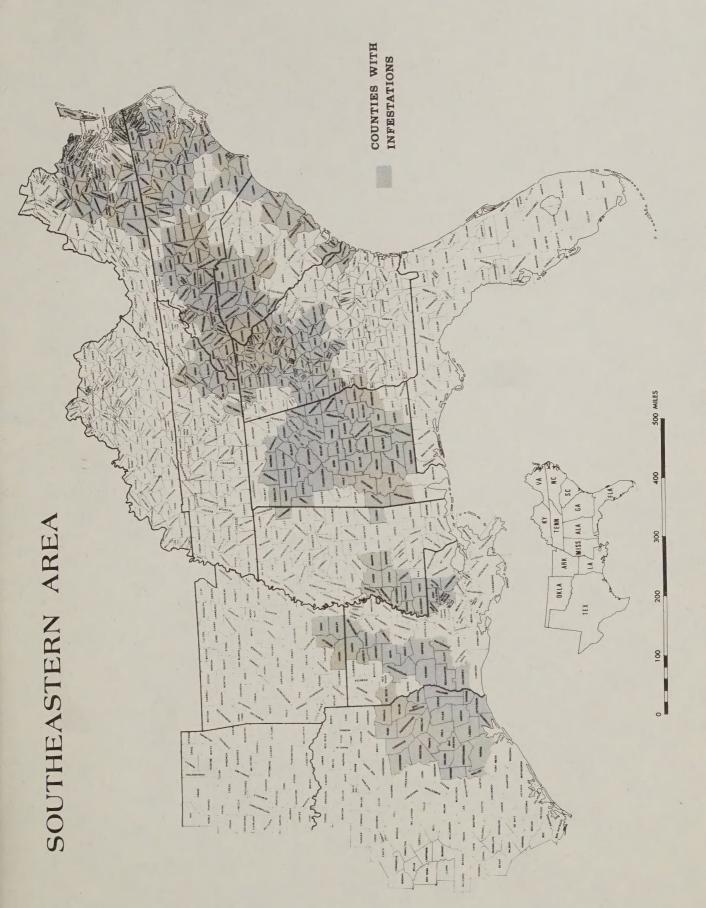
	Total Number of Counties	Number of Counties w/Susceptible Host		of Infested urrent Out	
State	in State	Type in State 1/	Jul 73	Jan 74	Jul 74
Alabama	67	66	53	53	50
Arkansas	75	47	4	2	4
Georgia	159	158	58	56	70
Louisiana	64	38	31	31	21
Mississippi	82	69	17	18	14
North Carolina	100	100	60	71	81
South Carolina	46	46	22	22	26
Tennessee	95	55	10	13	13
Texas	254	442/	22	22	26
Virginia	98	87	26	27	42
SA Total	1040	710	303	315	347

<sup>1/</sup> Susceptible host types include loblolly, shortleaf, pitch, pond, Virginia, table mountain, longleaf, and slash pines.

<sup>2/</sup> East Texas counties only.

GA. FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974 Κ٧. KΥ. TENN. TENN. 1972 1974 MISS. MISS. ARK. ARK. OKLA. OKLA. TEXAS TEXAS s.c. s. c. κγ. TENN. TENN. W ALA. 1973 1971 MISS. MISS. ARK. ARK. OKLA. OKLA. TEXAS TEXAS





FY 1975 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK, SOUTHEASTERN AREA FIGURE 2

